

OPTICAL SIGNAL TRANSMISSION BETWEEN A HEARING PROTECTOR MUFF AND AN EAR-PLUG RECEIVER

ABSTRACT

5 A hearing protector assembly has a muff and an ear-plug for hearing
protection while allowing reception of audio communication. The muff has a
receiver for audio signals, a modulation circuit, and a set of LEDs for transmitting
the audio signal as a light signal. The ear-plug has a photovoltaic cell for
receiving the light signals, a demodulator circuit, and a transducer for converting
10 the received signal into an acoustic signal.